

PO Job Risk Assessment

Name(s) of Risk Team Members: W. Schoenig, K. Sexton, R. Soja, E. Stein, J. Vignola (facilitator)	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Machine Shop Work Job Number or Job Identifier: PO-JRA-011	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: Work in group-operated machine shops in the Physics Department. Shops are often referred to as “tech shops”. Operation of lathes, milling machines, drill presses, grinding machines, band saws, table saws.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Training and Procedure List (Optional):						
Rev. #: 1	Date: August 26, 2005					
Stressors (if applicable, please list all): Scheduling/time, Poor Lighting, No Ventilation, Inadequate flooring		Reason for Revision (if applicable): Milling machine use contributed to RS injury.			Comments:	

				Before Additional Controls							After Additional Controls					
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Set Up, align material on machine tools, break down, clean up	Being cut, pinching fingers in vice	Training, gloves, safety glasses	Y	1	5	1	3	15								
	Being struck by an object, dropping part on foot	Training, safety shoes, safety glasses	Y	1	5	1	3	15								
	Manual lifting	See PO-JRA-004	Y	1	5	3	2	30								
Install cutting tool or blades into machine tools	Cut by sharp object	Training, gloves, safety glasses	Y	1	5	1	3	15								

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Adjust machine appropriate to task	Being struck by object if wrong speed is selected on milling machine	Training, performing machine maintenance, checking speed prior to cutting operation, safety glasses	Y	1	5	4	2	40								
	Extremity injured/crushed	Training, machine maintenance, safety glasses	Y	1	5	4	2	40								
Milling, drilling, cutting or turning operation	Being struck by object, hot metal chips	Training, safety glasses, machine guard, cutting fluid to cool metal, lighting	Y	1	5	2	2	20								
	Repetitive arm motion	Take appropriate breaks from specific task	Y	1	5	2	2	20	Consider adding motor to control bed lift	Y	1	5	2	1	10	50%
	Cut by sharp object, drill bits, milling bits or cutting tools	Training, safety glasses, machine guard, safety glasses	Y	1	5	2	4	40								
	Tangling Clothing	Training, appropriate dress	Y	1	5	5	1	25								
Cutting operation	Cut by sharp object	Training, safety glasses, machine guard	Y	1	5	4	2	40								
	Inhalation of dust	Training, safety glasses, vacuum device	Y	1	5	1	3	15								
Sharpening bits and cutting tools with grinder	Being struck by object, hot metal chips	Training, safety glasses, machine guard	Y	1	5	1	3	15								
De-burring finished part	Cut by sharp object	Training, use of proper hand tools, safety glasses	Y	1	5	1	1	5								

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Further Description of Controls Added to Reduce Risk: GSCs will be asked to consider need for retrofitting milling machines with heavy beds with a motor to assist in adjustment.																	
*Risk:	0 to 20 Negligible	21 to 40 Acceptable	41 to 60 Moderate				61 to 80 Substantial				81 or greater Intolerable						